

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number
WO 2004/112790 A1

(51) International Patent Classification⁷: **A61K 31/4425**,
35/56

(21) International Application Number:
PCT/GB2004/002659

(22) International Filing Date: 21 June 2004 (21.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0314340.1 19 June 2003 (19.06.2003) GB
0322003.5 19 September 2003 (19.09.2003) GB

(71) Applicant (for all designated States except US): **ABERDEEN UNIVERSITY** [GB/GB]; Research and Innovation, University Office, Kings College, Aberdeen AB24 3FX (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SCOTT, Roderick, H.** [GB/GB]; Department of Biomedical Sciences, Institute of Medical Sciences, University of Aberdeen, Foresterhill,, Aberdeen AB25 2ZD (GB). **JASPARS, Marcel** [GB/GB]; Marine Natural Products Laboratory, Department of Chemistry, University of Aberdeen, Old Aberdeen AB24 3UE (GB). **PLATT, Belina** [GB/GB]; Department of Biomedical Sciences, Institute of Medical Sciences, University of Aberdeen, Foresterhill,, Aberdeen AB25 2ZD (GB). **REIDEL, Gernot** [GB/GB]; Department of Biomedical Sciences, Institute of Medical Sciences, University of Aberdeen, Foresterhill,, Aberdeen AB25 2ZD (GB): **SEPCIC,**

Kristina [SI/SI]; Department of Biology, Biotechnical Faculty, University of Ljubljana, Vecna pot 111, 1000 Ljubljana (SI). **MCLAGGAN, Deborah** [GB/GB]; Department of Biomedical Sciences, Institute of Medical Sciences, University of Aberdeen, Foresterhill,, Aberdeen AB25 2ZD (GB).

(74) Agents: **SUER, Steven, Johannes et al.**; Ablett & Stebbing, Caparo House, 101-103 Baker Street, London W1U 6FQ (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

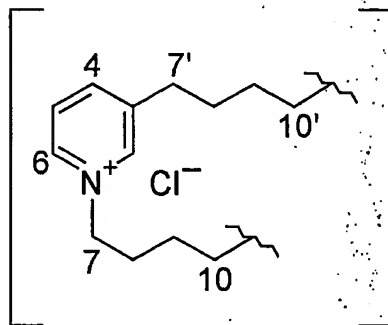
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: SPONGE TOXINS



n = 29, 99

(57) Abstract: The present invention relates to the use of sponge toxins, in particular polymeric 1, 3-alkylpyridinium salts (poly-APS), for the reversible formation of membrane pores and a method for producing such pores.

BEST AVAILABLE COPY

WO 2004/112790 A1



— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

BEST AVAILABLE COPY